SAMSUNG

ELECTRONICS

AH68-01725K

SAMSUNG

Digital Surround AV Receiver System

HT-AS600

Instruction Manual

Safety Warnings

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Note to CATV system installer :
This reminder is provided to call the CATV system installer's attention to Section 820~40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical

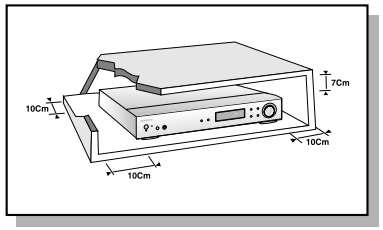
This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

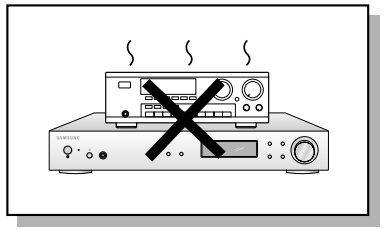
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

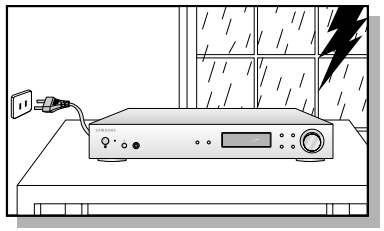
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Precautions

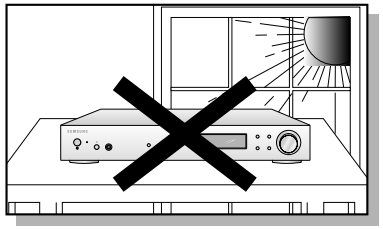




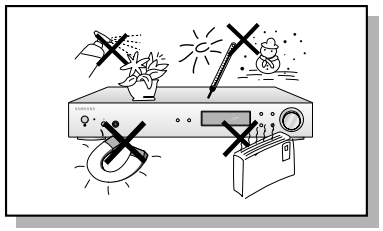
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

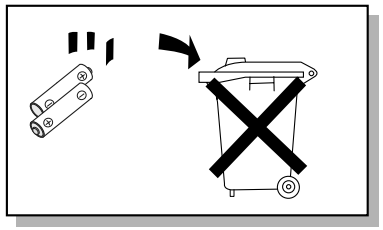


Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

Features

Dolby Pro Logic II

Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)

DTS play backs 5.1 channel sound with less compression than Dolby Digital for richer sound.

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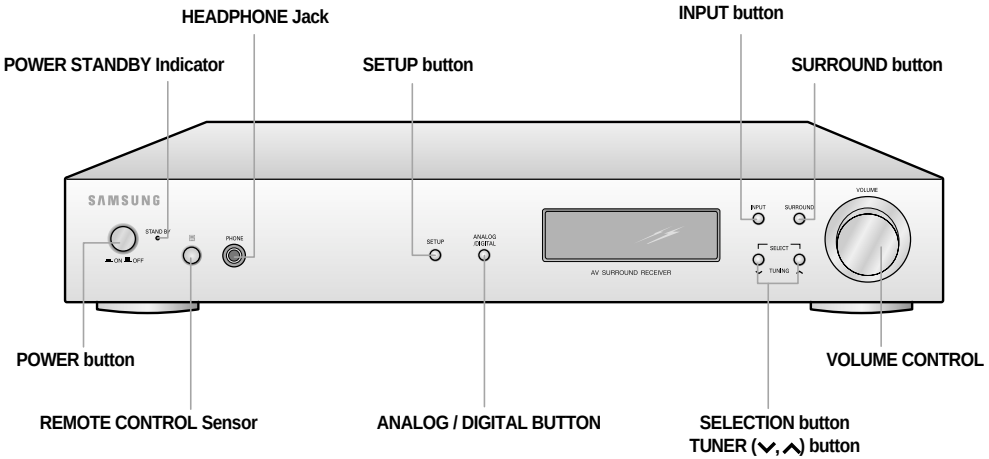
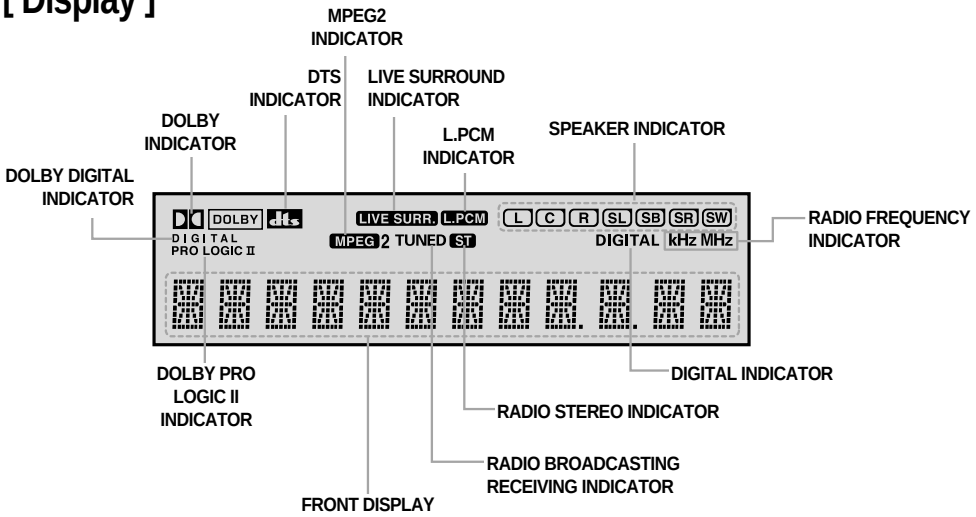
Description

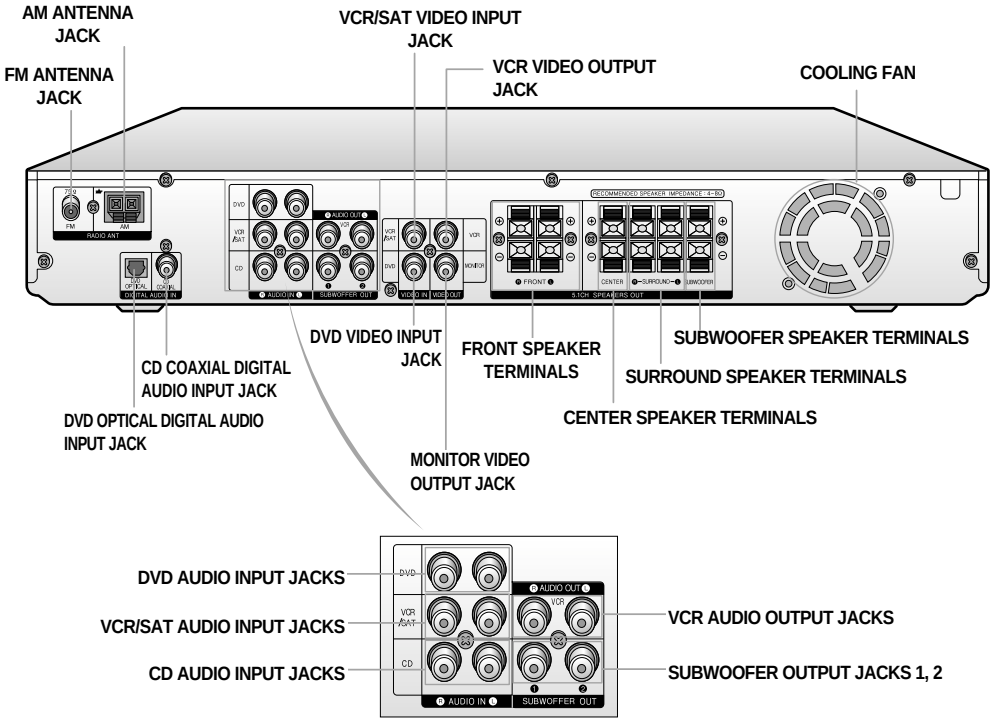
[Front Panel]



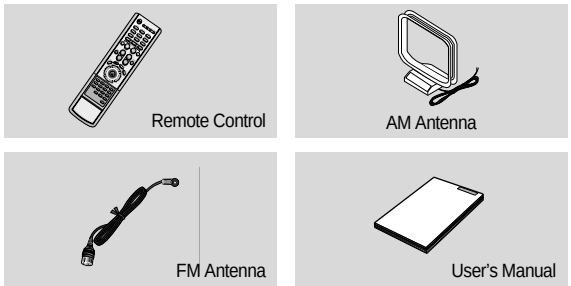
[Display]



[Rear Panel]



▶▶ Accessories ◀◀



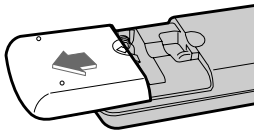
Description

[Remote Control]

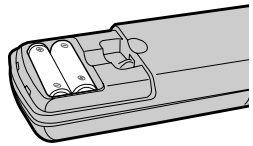
- POWER button
- TV VIDEO, FUNCTION button
- SLEEP button
- TUNER button
- SPEAKER DISTANCE button
- TEST TONE button
- PLII MODE button
- EXTERNAL DEVICE PLAYBACK button
- MUTE button
- VOLUME CONTROL button
- MENU button
- ANALOG/DIGITAL button
- Direct Function Select button
- TV Indicator
- VCR Indicator
- AV RECEIVER Indicator
- DVD Indicator
- MODE button
- MO/ST button
- SUBWOOFER button
- SPEAKER SETUP button
- SFE MODE button
- PLII EFFECT button
- TUNER MEMORY button
- TUNING/CHANNEL button
- SPEAKER LEVEL button
- STEREO button
- MOVE/SELECT button
- DIMMER button

Insert Remote Batteries

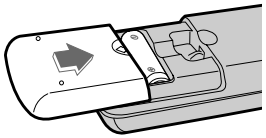
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



3 Replace the battery cover.



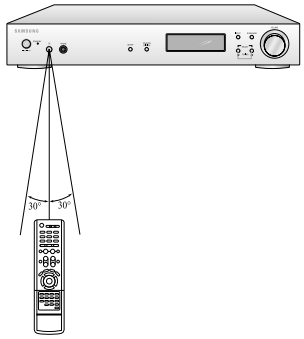
Note

Follow these precautions to avoid leaking or cracking batteries:

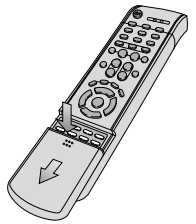
- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

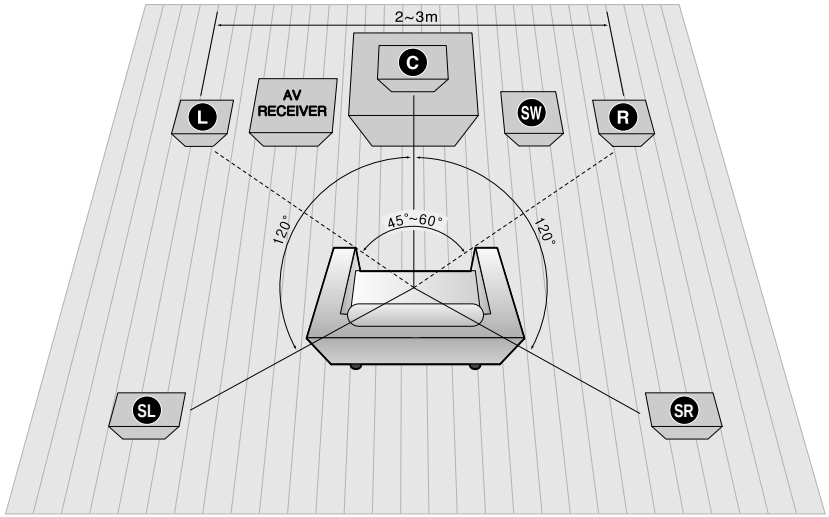


To open the remote control cover, push the top of the cover, then slide downward.



Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of AV Receiver

- Place AV Receiver on a dedicated stand or rack.

Front Speakers L R

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker C

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Surround Speakers SL SR

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

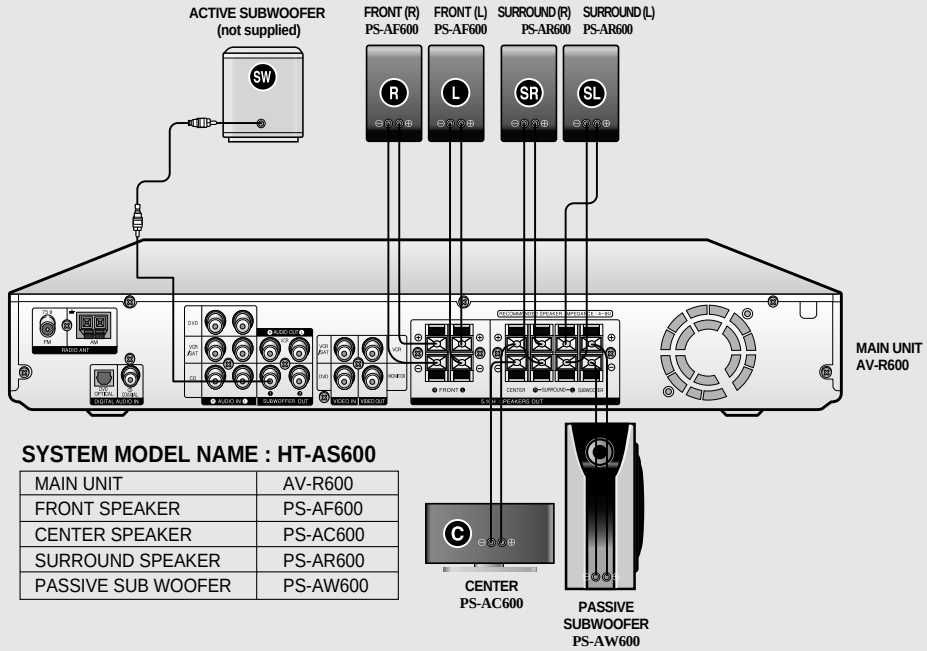
❋ Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer SW

- The position of the subwoofer is not so critical. Place it anywhere you like.

Note

- When you place the speaker on the wall, make sure to fasten it tightly so that it may not fall off.

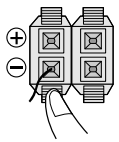


SYSTEM MODEL NAME : HT-AS600

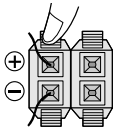
MAIN UNIT	AV-R600
FRONT SPEAKER	PS-AF600
CENTER SPEAKER	PS-AC600
SURROUND SPEAKER	PS-AR600
PASSIVE SUB WOOFER	PS-AW600

▶ Connecting Speaker Wire

1 Press the tab of the speaker connector.



2 Insert the black wire into the black(-) terminal and the gray wire into the gray(+) terminal.



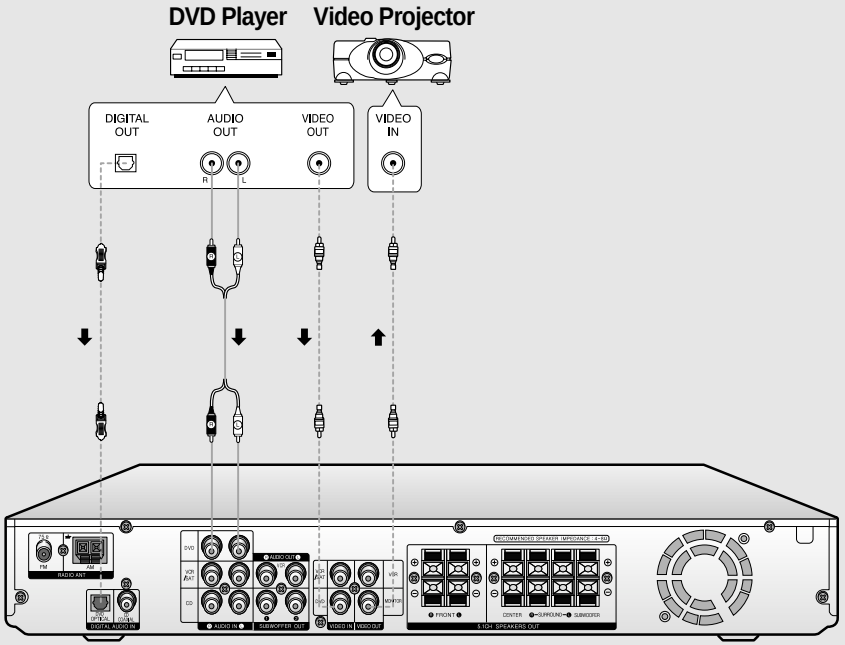
Note

- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.

Connecting External Components

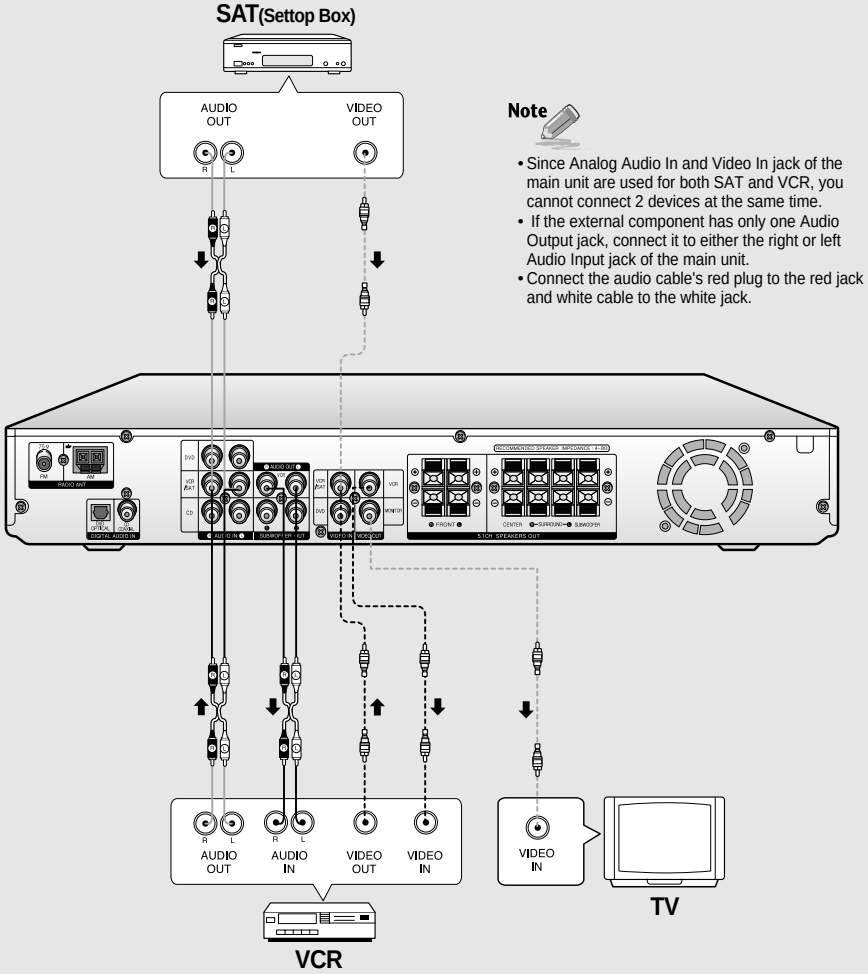
Connecting Video Component

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Note

- Disconnect the power plug from the outlet if you do not use this unit for long period of time.



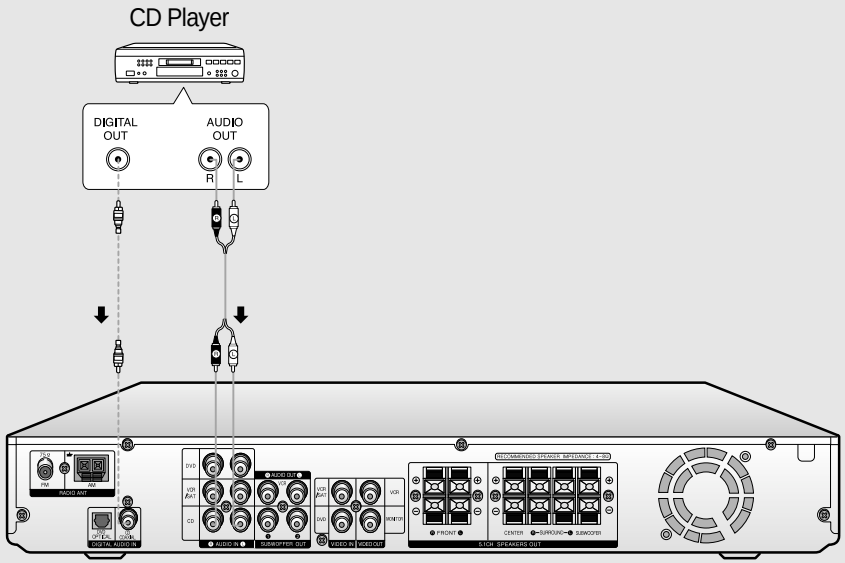
Note

- Since Analog Audio In and Video In jack of the main unit are used for both SAT and VCR, you cannot connect 2 devices at the same time.
- If the external component has only one Audio Output jack, connect it to either the right or left Audio Input jack of the main unit.
- Connect the audio cable's red plug to the red jack and white cable to the white jack.

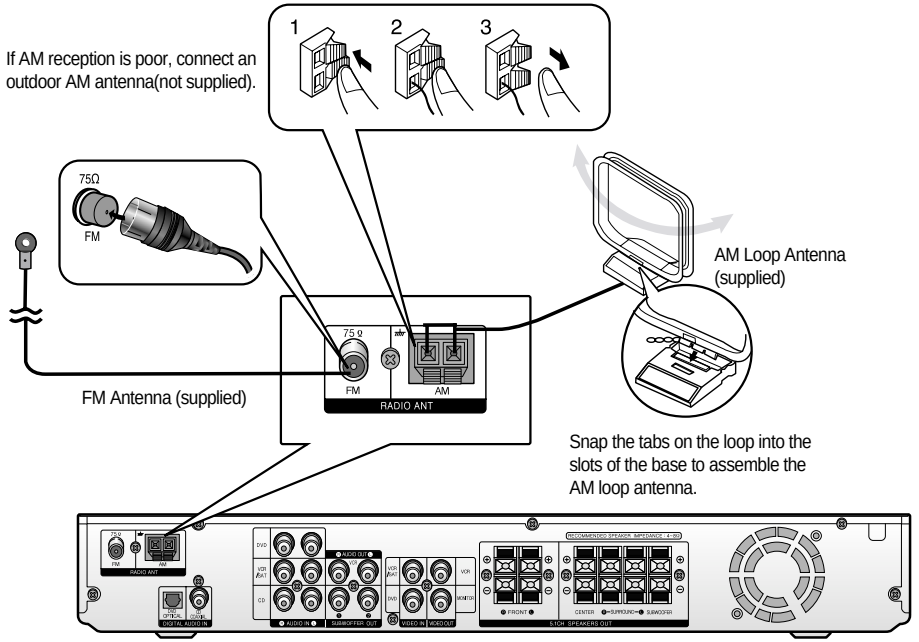
Connecting External Component

Connecting Audio Component

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Connecting the FM and AM Antennas



FM antenna connection

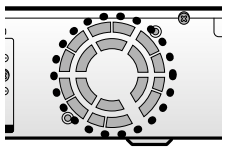
1. Connect the FM antenna supplied to the FM 75ΩCOAXIAL terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

AM antenna connection

1. Connect the AM loop antenna supplied to the AM and terminals.
2. If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).

COOLING FAN

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.



Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)

Before Using the AV Receiver

Turning On/Off

MAIN UNIT

1 Connect the power plug to the outlet.

2 Press the **POWER (** ON OFF **)** button of the main unit.

• This unit will be turned on or off.

REMOTE CONTROL

Press the **POWER (** ⏻/I **)** button of the remote control while main unit is turned on.

• This unit will be turned on or set to Standby mode.

Note

• This unit will not turned on or off even if you press the **POWER (** ⏻/I **)** button on the remote control while the main unit is turned off.

• When you turn off the power by pressing the **POWER (** ⏻/I **)** button on the remote control, the unit will be in standby mode.To completely turn off the power, press the **POWER (** ON OFF **)** button of the main unit. Standby indicator will be turned off.

Functions of Dedicated Remote Control

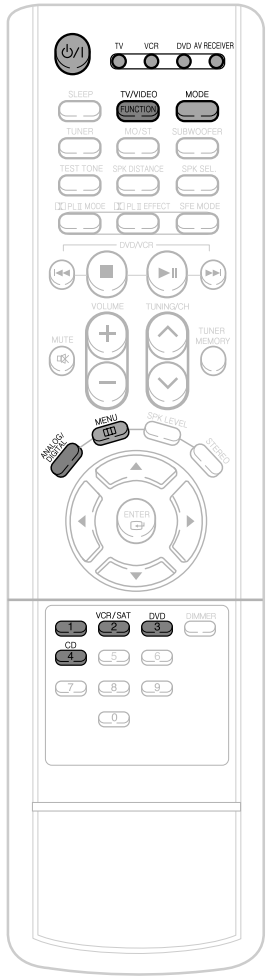
You can operate TV, VCR, DVD, AV Receiver with one remote control.
See pages 41-44 for more details.

REMOTE CONTROL

Press **MODE** button.

• Each time you press this button, it will select and blink TV indicator → VCR indicator → DVD indicator → AV Receiver indicator in turn.

Selecting External Component Input



To Select the Function

REMOTE CONTROL

Method 1

Press the **FUNCTION** button.

• Each time you press the this button, **CD → DVD → VCR/SAT → FM → AM** will be selected in turn.

Method 2 Press **DIRECT FUNCTION** Select button.

• You can directly select VCR/SAT, DVD, CD.

MAIN UNIT

Press **INPUT** button.

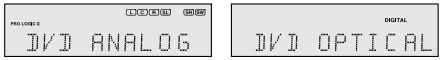
• Each time you press the this button, **CD → DVD → VCR/SAT → FM → AM** will be selected in turn.

To Select Analog/Digital Input

You can listen to sound in Analog 2 Channels or Dolby Digital 5.1 Channel using this unit.

Press the **ANALOG/DIGITAL** button.

• For DVD, VCR/SAT Function
ANALOG and **OPTICAL** (DVD OPTICAL) will be selected repetitively.



• For CD Function
ANALOG and **COAXIAL** will be selected repetitively.

Note

• You can enjoy Dolby Digital only if you connect the Audio Output jack of an external audio component to the optical/coaxial digital Audio Input jack on the main unit.

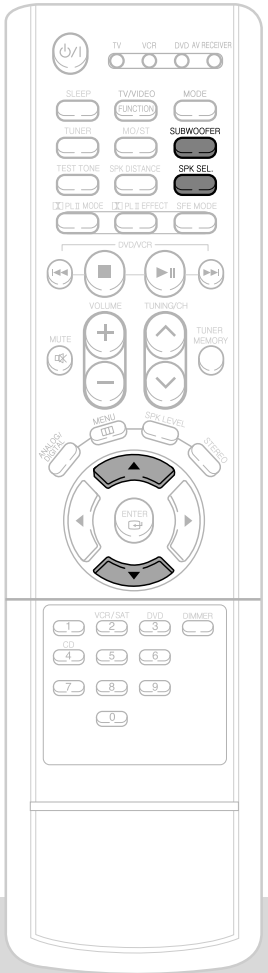
• You can operate this function only with the remote control.

• This function will be selected in analog only for VCR function.

OPERATION

Setting the Speaker Mode

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.Signal outputs and frequency response from the speaker will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

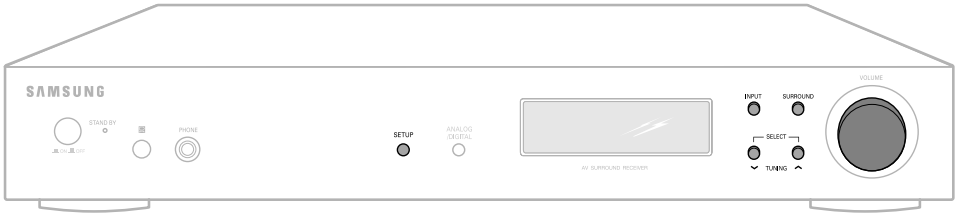


REMOTE CONTROL

1 Press **SPK SEL.** button to select the speaker you want.
- Each time you press this button, F.SPK → C.SPK → S.SPK → SW SPK → CROVR → SPK MODE OFF will be selected in turn.

2 Press ▲▼ button to set the speaker mode.

To Exit Setup Mode
- Wait for about 5 seconds or press the **SPK SEL.** button of the remote control to select SPK MODE OFF.



MAIN UNIT

1 Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button one time.
- "SPEAKER SETUP" appears in the display.

3 Press **SURROUND** button to select the speaker you want.
- Each time you press this button, F.SPK → C.SPK → S.SPK → SW SPK → CROVR will be selected in turn.

4 Press **SELECT** (❯, ❮) button to set the speaker mode.

To Exit Setup Mode
- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

To turn the SUBWOOFER On or Off.

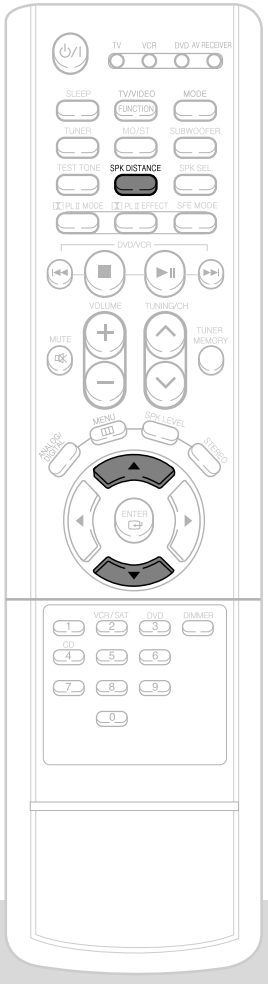
Press **SUBWOOFER** button.
- Each time you press this button, SW SPK : YES, SW SPK : NO will be selected in turn.
- If you play in 2 Channel Stereo, select 'YES' to use Subwoofer and 'NO' not to use.

Note
- If F.SPK is set to 'SMALL', SW SPK is fixed to 'YES'.

Setting the Speaker
- **F.SPK (Front)** : LARGE, SMALL
- **C.SPK (Center)** : LARGE, SMALL, NONE
- **S.SPK (Surround)** : LARGE, SMALL, NONE
- **SW SPK (Subwoofer)** : YES, NO
- **CROVR (Crossover Frequency)**: 60, 80, 100, 120, 150, 180, 200Hz

- **LARGE** : Select when you use large speaker. You can listen to full range sound.
- **SMALL** : Select this when you use small speaker. Bass below 100Hz will not be output.
- **NONE** : Select this when you use no speaker.
- **YES** : Select this when you use Subwoofer Speaker if you play back in 2 Channel Stereo.
- **NO** : Select when you do not use Subwoofer Speaker if you play back in 2 Channel Stereo.
- **CROVR**: Select the crossover frequency depending on the size of speaker connected when you use subwoofer. Select 60Hz if cone paper speaker is 5.6inch, select 80Hz for 4.8inch, 100Hz for 4inch, 120Hz for 3.2inch, 150Hz for 2.4inch, 180Hz and 200Hz for 1.6inch.

Setting the Speaker Listening Distance



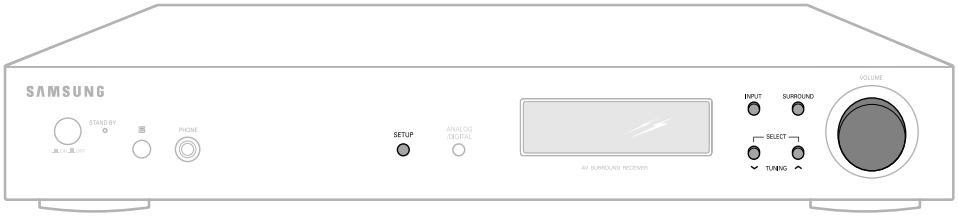
REMOTE CONTROL

1 Press the **SPEAKER DISTANCE** button to select the speaker you want.
- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → DISTANCE OFF will be selected in turn.

2 Press ▲▼ button to set the speaker distance.
- For F.L, CEN, F.R, S.W Speaker, you can set the distance from the speaker to listening position between 0.0~1.5m in intervals of 0.3m.
- For S. R, S.L Speaker, you can set the distance from the speaker to listening listening position between 0.0~4.5m in intervals of 0.3m.

To Exit Setup Mode
- Wait for about 5 seconds or press the **SPEAKER DISTANCE** button of remote control to select DISTANCE OFF.

Note
- If the listening position is beyond the range of speaker distance setup when you place the speaker, set the speaker distance to the maximum.



MAIN UNIT

1 Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button 2 times.
- "DISTANCE SETUP" appears on the display.

3 Press **SURROUND** button to select the speaker you want.
- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.

4 Press **SELECT**(⌄,⌃) button to set the speaker distance.
- For F.L, CEN, F.R, S.W Speaker, you can set the distance from the speaker to listening position between 0.0~1.5m in intervals of 0.3m.
- For S.R, S.L Speaker, you can set the distance from the speaker to listening listening position between 0.0~4.5m in intervals of 0.3m.

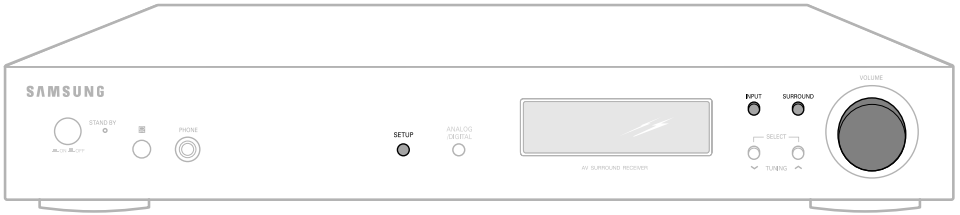
To Exit Setup Mode
- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exit Setup Mode.

Setting Speaker Distance

Set the distance from the speaker to listening position in intervals of 0.3m.
- **F.L (Front-Left)** : 0feet ~ 5feet
- **CEN (Center)** : 0feet ~ 5feet
- **F.R (Front-Right)** : 0feet ~ 5feet
- **S.R (Surround-Right)** : 0feet ~ 15feet
- **S.B (Surround Center)**: 0feet ~ 15feet
- **S.L (Rear-Left)**: 0feet ~ 15feet
- **SW (Subwoofer)**: 0feet ~ 5feet

Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



MAIN UNIT

1 Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button 3 times.
- "DRC SETUP" appears on the display.

3 Press **SURROUND** button to set DRC.
- Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds or turn the **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

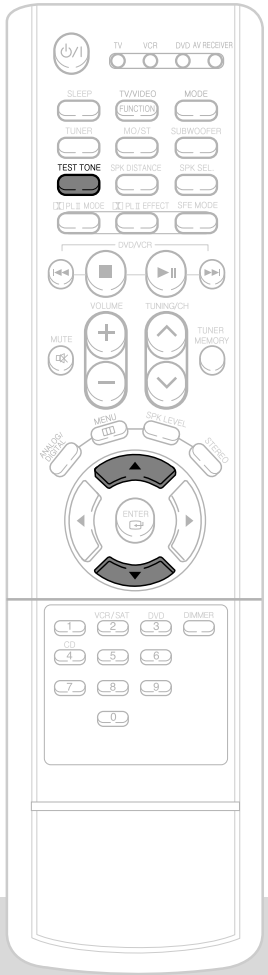
Setting DRC

- **STD** : Sets DRC effect to standard.
- **MAX** : Sets DRC effect to maximum.
- **MIN** : Sets DRC effect to minimum.

Note
- You can only set this function via the main unit.

Test Tone

Use test tone to check the speaker connection status or level.



To Automatically Output Test Tone

REMOTE CONTROL

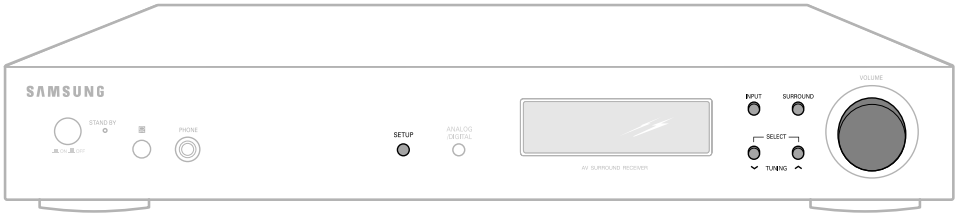
1 Press **TEST TONE** button.
- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
- During test tone output, press ▲▼ button to adjust the speaker output level from -10 to +10 dB by 1 step.

To Stop Test Tone

- Press **TEST TONE** button again.

Test Tone

Use test tone to check speaker connection status or level.



To Automatically Output Test Tone

MAIN UNIT

1 Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

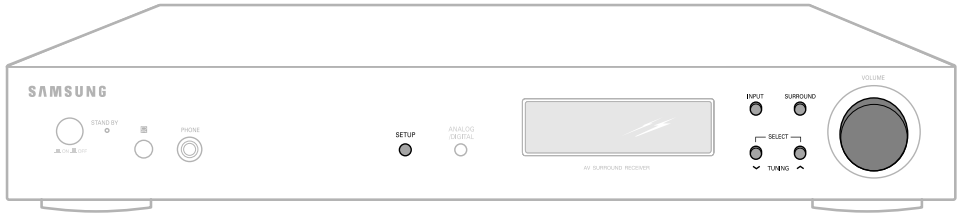
2 Press **INPUT** button 4 times.
- "TEST-T AUTO" appears in the display.

3 Press **SURROUND** button.
- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W .
- During test signal output, press **SELECT** (∨,∧) button to adjust the speaker output level from -10 to +10 dB by 1 step.

To Stop Test Tone

Method 1) Press **INPUT** button 2 times.
- "TEST-T OFF" appears on the display and test tone stops.

Method 2) Turn **VOLUME CONTROL.**
- "SETUP MODE OFF" appears on the display and test tone stops.



To Manually Output Test Tone

MAIN UNIT

1 Press **SETUP** button.
- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button 5 times.
- "TEST-T MANU" appears in the display.

3 Press **SURROUND** button.
- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.

4 Press **SELECT**(∨,∧)button to set the test tone as you want.
- You can adjust the speaker output level from -10 to +10dB by 1 step.

To Stop Test Tone

Method 1) Press **INPUT** button 1 time.
- "TEST-T OFF" appears on the display and test signal stops.

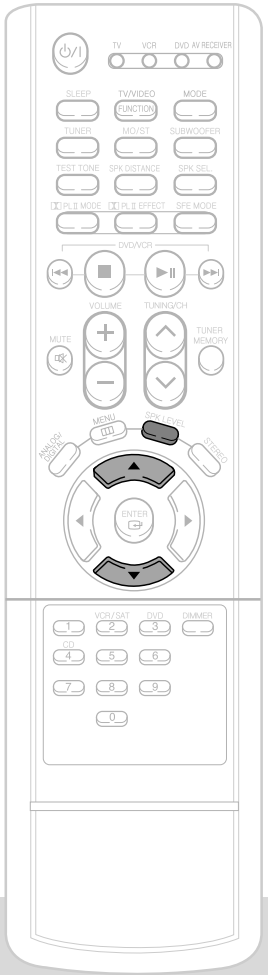
Method 2) Turn **VOLUME CONTROL.**
- "SETUP MODE OFF" appears on the display and test tone stops.

Test Tone Output

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.L (Surround-Left)**: -10 ~ +10dB
- **S.W (Subwoofer)**: -10 ~ +10dB

Setting Speaker Level

You can set the balance and level of speakers



Remote Control

1 Press **SPK LEVEL** button to select the speaker you want.

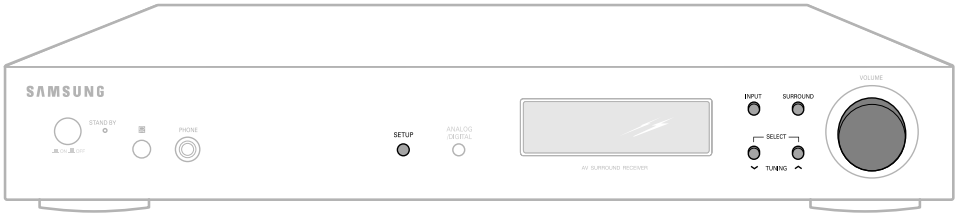
- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → SPK LEVEL OFF will be selected in turn.

2 Press ▲▼ button to set the speaker level you want.

- You can adjust it from -10 to +10dB by 1 step.
- The sound gets quieter at -10dB and louder at +10dB.
- Default setting value is 00dB.

To Exit Setup Mode

- Wait for about 5 seconds or press **SPK LEVEL** button on the remote control to select SPK LEVEL OFF.



MAIN UNIT

1 Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button 7 times.

- "LEVEL SETUP" appears on the display.

3 Press **SURROUND** button.

- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.

4 Press **SELECT**(⌄,⌃) button to set to the speaker level you want.

- You can adjust it from -10 to +10dB by 1 step.
- The sound gets smaller at -10dB and louder at +10dB.
- Default setting value is 00dB

To Exit Setup Mode

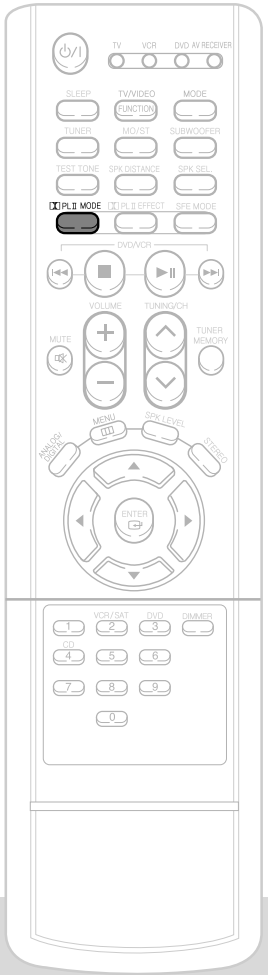
- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Menu.

Setting Speaker Level

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.L (Surround-Left)**: -10 ~ +10dB
- **S.W (Subwoofer)**: -10 ~ +10dB

Dolby Pro Logic Ⅱ Mode

This mode provides 5.1 channel sound from 2 channel sources



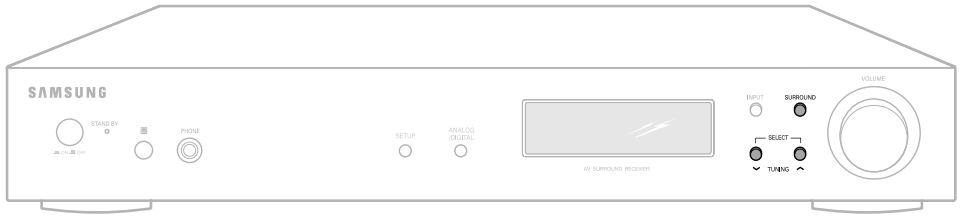
REMOTE CONTROL

1 Press **DOLBY PLⅡ MODE** button.

- Each time you press this button, MUSIC → CINEMA → MATRIX → GAME → PROLOGIC will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.



MAIN UNIT

1 Press **SURROUND** button briefly to select "DPL Ⅱ" Mode.

- Each time you press this button, DPL Ⅱ → SFE → STEREO will be selected in turn.

2 Press **SELECT(∨,∧)** button.

- Each time you press **SELECT (∧)** button, MUSIC → CINEMA → MATRIX → PROLOGIC will be selected in turn.
- Each time you press **SELECT (∨)** button, PROLOGIC → MATRIX → CINEMA → MUSIC will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.

Dolby Pro Logic Ⅱ Mode

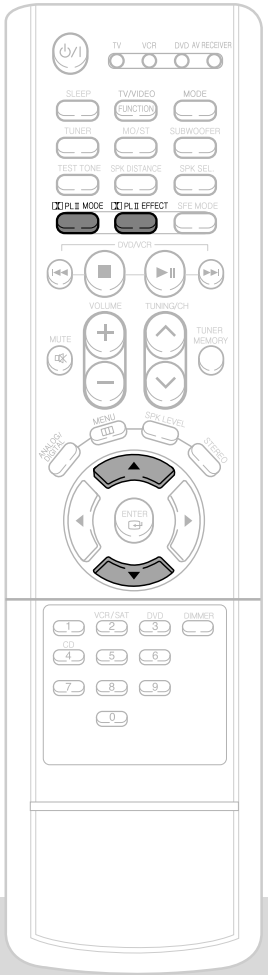
- **MUSIC** : Provides 5.1 Channel Surround sound to digital, analog or existing stereo sources such as CD, TAPE, FM, TV and Stereo VCR.
- **CINEMA** : Adds realism to the movie soundtrack.
- **MATRIX** : You will hear 5.1 Channel Surround sound.
- **PROLOGIC** : You will experience a surround effect with just the front left and right speakers.

Note

- You cannot use Dolby Pro Logic Ⅱ Mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from rear center speaker if PCM audio signal is mono.

Dolby Pro Logic Ⅱ Effect

This function works only in Dolby **PRO LOGIC II MUSIC** Mode.

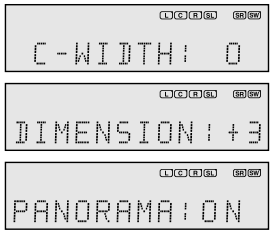


REMOTE CONTROL

1 Press DPLⅡ **MODE** button to select 'MUSIC' Mode.

2 Press DPLⅡ **EFFECT** button.

- Each time you press this button, C-WIDTH → DIMENSION → PANORAMA → DPL Ⅱ EFT OFF will be selected in turn.

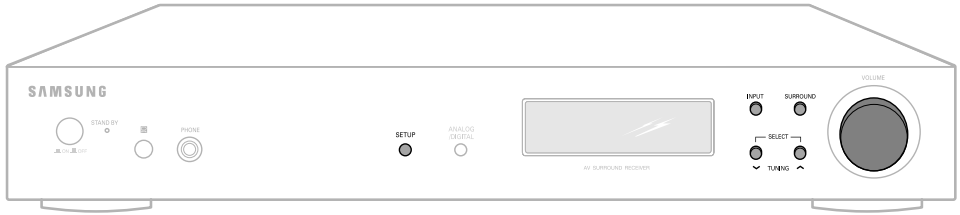


3 Press ▲▼ button to select Dolby Pro Logic Ⅱ effect you want.

- C-WIDTH: You can set from 0 to 7.
- DIMENSION: You can set from -7 to +7.
- PANORAMA: You can Set it ON or OFF.

To Exit Setup Mode

- Wait for about 5 seconds or press DPLⅡ Effect button of remote control to select DLP Ⅱ EFT OFF.



MAIN UNIT

1 Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **INPUT** button 9 times.

- "DPL Ⅱ MODE"appears on the display.

3 Press **SURROUND** button.

- Each time you press this button, **C-WIDTH → DIMENSION → PANORAMA** will be selected in turn.

4 Press **SELECT**(⌄, ⌃) button to select Dolby Pro Logic Ⅱ effect you want.

To Exit Setup Mode

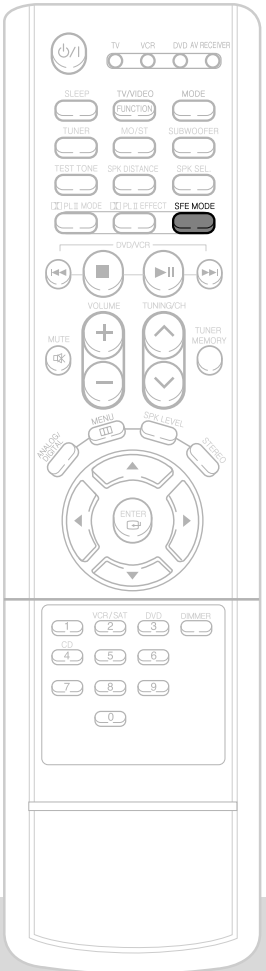
- Wait for about 5 seconds or turn **VOLUME CONTROL** of the main unit. "SETUP MODE OFF" appears on the display and exits Setup Mode.

Dolby Pro Logic Ⅱ Effect

- **C-WIDTH** : This sets the width of the center image. The higher the setting, the less sound comes from the center speaker.
- **DIMENSION** : Incrementally adjusts the sound field (DSP)from the front or rear.
- **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

SFE Mode

Refer to the unique sound existing at specific place and you can feel live sound as if you are listening at actual site.



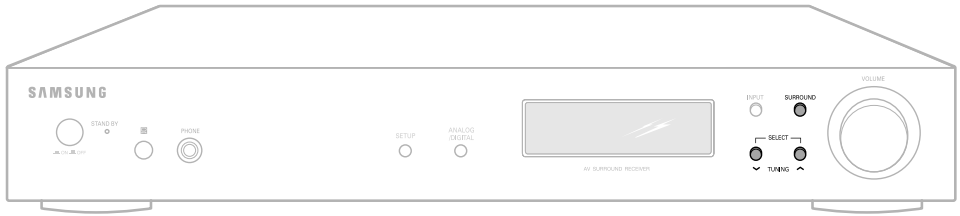
REMOTE CONTROL

1 Press **SFE MODE** button.

- Each time you press this button, **HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH** will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.



MAIN UNIT

1 Press **SURROUND** button briefly to select 'SFE' Mode.

- Each time you press this button, DPL II → SFE → STEREO will be selected in turn.

2 Press **SELECT**(⌄,⌃) button.

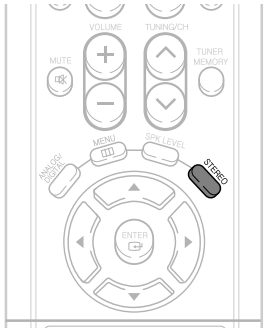
- Each time you press Select (⌃) button, **HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH** will be selected in turn
- Each time you press Select (⌄) button, **CHURCH → STADIUM → DOME → CLUB → ARENA → THEATER → HALL** will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.

Stereo Mode

You can select this mode when you listen to sound through the Front Left and Right speakers and subwoofer.



REMOTE CONTROL

Press **STEREO** button.

- "STEREO" appears in the display and Stereo Mode is selected.

To Exit Setup Mode

- Wait for about 5 seconds.

MAIN UNIT

Press **SURROUND** button briefly to select 'STEREO'.

- Each time you press this button, DPL II → SFE → STEREO will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.

Note

- When PCM and Analog Stereo signals are input, the left and right channels are played back in Stereo Mode.

For Surround Mode and Input Signal

o = active, – = inactive

Surround Mode	Input Signal	Decoding	Output Channel				Display Information	
			L/R	C	SL SR	Sub Woofer	Display Signal Format	Channel Status
DOLBY (MUSIC, CINEMA, MATRIX, GAME, PROLOGIC)	Dolby D Surr. EX	Dolby Digital 5.1	o	o	o	o	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Dolby Digital 5.1	o	o	o	o	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	Pro Logic II x	o	o	o	o	□□ DIGITAL	L, R
	Dolby D (2ch Surr)	Pro Logic II x	o	o	o	o	□□ DIGITAL	L, R
	L.PCM (Audio)	Pro Logic II x	o	o	o	o	L.PCM	L, R
	Analog	Pro Logic II x	o	o	o	o	ANALOG	-
NEO:6 (MUSIC, CINEMA)	DTS-ES	DTS 5.1	o	o	o	o	dts, ES	L, C, R, SL, SR, SW
	DTS 96/24	DTS 96/24	o	o	o	o	DTS 96/24	L, C, R, SL, SR, SW
	DTS (5.1)	DTS 5.1	o	o	o	o	dts	L, C, R, SL, SR, SW
	L.PCM (Audio)	Neo:6	o	o	o	-	L.PCM	L, R
	Analog	Neo:6	o	o	o	-	ANALOG	-
	Dolby D (2ch)	Neo:6	o	o	o	-	□□ DIGITAL	L, R
	Dolby D (2ch Surr)	Neo:6	o	o	o	-	□□ DIGITAL	L, R
SFE	Dolby Surr. EX	SFE	-	-	-	-	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	SFE	-	-	-	-	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	SFE	o	o	o	o	□□ DIGITAL	L, R
	Dolby D (2ch Surr)	SFE	o	o	o	o	□□ DIGITAL	L, R
	DTS-ES	SFE	-	-	-	-	dts, ES	L, C, R, SL, SR, SW
	DTS (5.1ch)	SFE	-	-	-	-	dts	L, C, R, SL, SR, SW
	L.PCM (Audio)	SFE	o	o	o	o	L.PCM	L, R
	Analog	SFE	o	o	o	o	ANALOG	-
EX/ES	Dolby D Surr. EX	Dolby Digital EX	o	o	o	o	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Dolby Digital EX	o	o	o	o	□□ DIGITAL	L, C, R, SL, SR, SW
	DTS-ES	DTS-ES	o	o	o	o	dts, ES	L, C, R, SL, SR, SW
	DTS (5.1ch)	DTS-ES	o	o	o	o	dts	L, C, R, SL, SR, SW
STEREO	Dolby Surr. EX	Stereo	o	-	-	o	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Stereo	o	-	-	o	□□ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	Stereo	o	-	-	-	□□ DIGITAL	L, R,
	Dolby D (2ch Surr)	Stereo	o	-	-	-	□□ DIGITAL	L, R, SC
	DTS-ES	Stereo	o	-	-	o	dts, ES	L, C, R, SL, SR, SW
	DTS 96/24	Stereo	o	-	-	o	dts 96/24	L, C, R, SL, SR, SW
	DTS (5.1ch)	Stereo	o	-	-	o	dts	L, C, R, SL, SR, SW
	L.PCM (Audio)	Stereo	o	-	-	-	L.PCM	L, R
	L.PCM 96KHz	Stereo	o	-	-	-	L.PCM	L, R
	Analog	Stereo	o	-	-	-	ANALOG	-

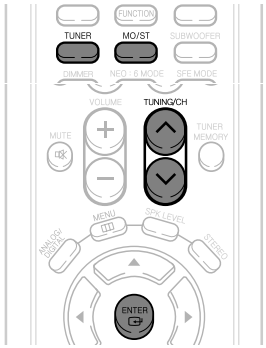
L/R : Front Speaker (Left/Right) **C** : Center Speaker **SL/SR** : Rear Speaker (Left/Right) **SW** : Subwoofer

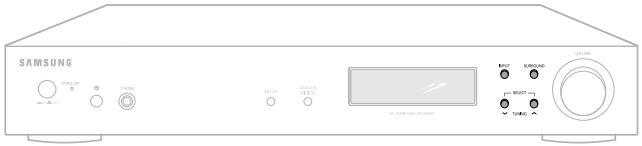
Note

- 2 channel Dolby Digital signal has Dolby Digital Pro Logic. Speaker Setup is set to LARGE, SMALL, or YES.
- If there is no surround signal in DVD disk, sound will not output from rear-left speaker, rear-right speaker, center speaker, and subwoofer.

Listening to Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.





REMOTE CONTROL

1 Press **TUNER** button.

- Each time you press this button, FM → AM will be repetitively selected.

2 Select frequency.

- Automatic Tuning 1 :
  1) Press **ENTER** button to select PRESET.
  2) Press **TUNING/CH(∨, ∧)** button to select the preset frequency.
- Automatic Tuning 2 :
  1) Press **ENTER** button to select MANUAL
  2) Press and hold **TUNING/CH(∨, ∧)** button to automatically tune in frequency.
- Manual Tuning :
  1) Press **ENTER** button to select MANUAL.
  2) Press **TUNING/CH(∨, ∧)** button briefly to increase or decrease frequency by step by step.

MAIN UNIT

1 Press **INPUT** button to select FM or AM.

2 Select the frequency.

- Automatic Tuning :
  Press and hold **TUNING/CH(∨, ∧)** button to automatically tune in frequency.
- Manual Tuning :
  Press **TUNING/CH(∨, ∧)** button briefly to increase or decrease frequency step by step.

To Listen to Mono/Stereo

Press **MO/ST** button on the remote.

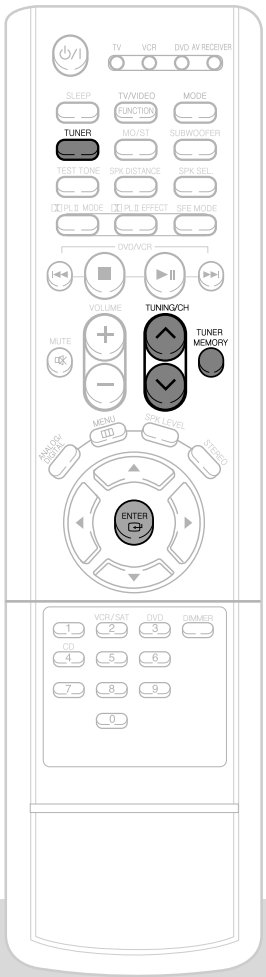
- Each time you press this button, STEREO, MONO will be selected in turn.
- If you select MONO in the area with weak reception, it will help to reduce noise.
- This function works only with the Remote Control.

How to select PRESET, MANUAL

1. Press the **SETUP** button.
2. Press the **INPUT** button 8 times.
3. Press the **SURROUND** button and select Manual or Preset.
   - This function operates only with the main unit.

Presetting Radio Stations

You can preset up to 30 FM and AM stations.

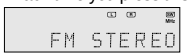


REMOTE CONTROL

Ex) If you preset FM 89.1 station in 2ch

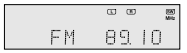
1 Press **TUNER** button.

- Each time you press this button, FM → AM will be selected in turn.



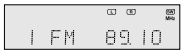
2 Press Select button and then **TUNING/CH(∨, ∧)** button to select 89.1.

- Refer to step 2, page 35, to tune in automatically and manually.



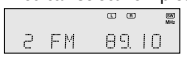
3 Press **TUNER MEMORY** button.

- Tuner number will blink on the display.



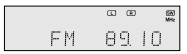
4 Press **TUNING/CH(∨, ∧)** button to select preset 2.

- You can select from presets 1 to 30.



5 Press **TUNER MEMORY** button.

- Tuner number will disappear and station 89.1 will be saved in preset 2.

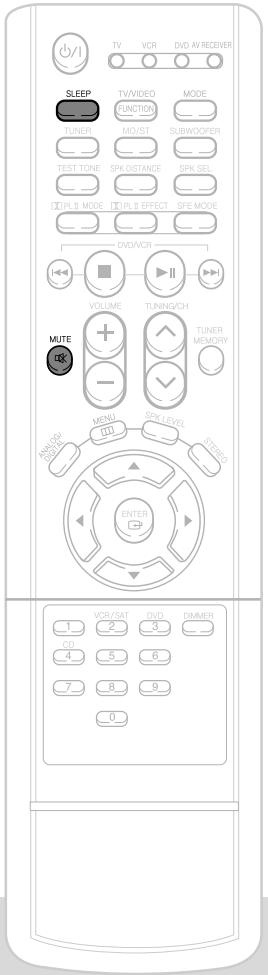


6 To preset other stations, repeat steps 2 to 5.

To Listen to Preset Station

- Press Select button of the remote control to select the PRESET and press **TUNING/CH (∨, ∧)** button.

Convenient Functions



Sleep Timer Function

You can set the time that this unit will shut itself off.

REMOTE CONTROL

Press the **SLEEP** button.

• SLEEP : OFF → 15 → 30 → 45 → 60 → 90 → 120MIN will be selected in turn.

To Check Sleep Timer

Press **SLEEP** button.

• The remaining time before this unit will shut itself off is shown on the display.
• Pressing the button again changes the sleep time from what you have set earlier.

To Cancel Sleep Timer

• Press **SLEEP** button until SLEEP : OFF appears on the display.

Mute Function

This function is useful when answering a doorbell or telephone call.

REMOTE CONTROL

Press the **MUTE** button.

• **MUTE** appears on the display.

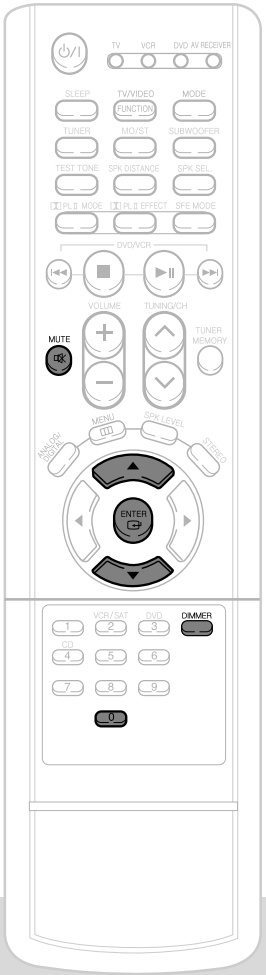
To Output Sound Again

Press **MUTE** button again.

• MUTE will disappear and sound will Output.

Note

• SLEEP, Mute and Adjust Display function can only be operated with the remote control.



Reset Function

REMOTE CONTROL

1. Press the **MUTE** button.
   • **MUTE** appears on the display.
2. Press "**0**" button five times and then press **ENTER** button.
3. Press ▲▼ buttons to select "YES".
   • The unit will turn automatically back on in 5 seconds.

Caution!

• Using the RESET function will erase all stored settings.
• Do not use this unless necessary.

Adjust the Display

You can adjust the brightness of the display.

REMOTE CONTROL

Press the **DIMMER** button.

• Each time you press this, the brightness of the display will be adjusted.

Using Headphone

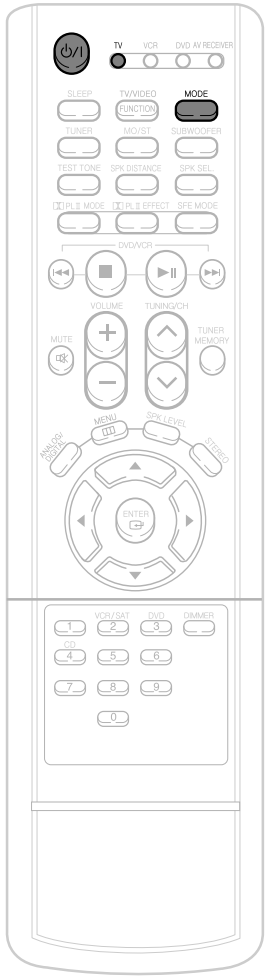
Use headphones (not supplied) for private listening pleasure.

Connect the headphone to the headphone jack and listen to music.

Note

• Do not turn the volume up too high when you use headphone.
• It may damage your hearing.

Operating TV with Remote Control



1 Press **MODE** button to make the TV indicator on the remote control flash.

2 Press **POWER(⏻/I)** button to turn on the TV.

3 Point the remote control toward the TV.

4 While holding down **POWER(⏻/I)** button, enter the code corresponding to your brand of TV.

- If the code matches the TV's code, the TV will be turned off.
- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

5 If TV is turned on or off when you press the power button of the remote control, the setting is completed.

- You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

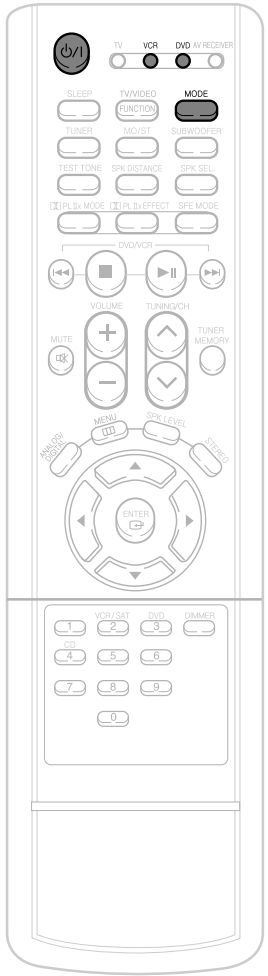
Note

- The remote control may not work on some brands of TVs. Also, some operation may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M.WARDS)	056, 057, 058	LUXMAN	018	SYLVANIA	018, 040, 048, 054, 059, 060, 062
A MARK	001, 015	LXI(SEARS)	019, 054, 056, 059, 060, 062, 063, 065, 071	SYMPHONIC	061, 095, 096
ANAM	001, 002, 003, 004,005, 006, 007, 008, 009, 010, 011, 012, 013, 014	MAGNAVOX	015, 017, 018, 048, 054, 059, 060, 062, 072, 089	TATUNG	006
				TECHWOOD	018
AOC	001, 018, 040, 048	MARANTZ	040, 054	TEKNIKA	003, 015, 018, 025
BELL & HOWELL(M.WARDS)	057, 058, 081	MATSUI	054	TMK	018, 040
BROCSONIC	059, 060	MGA	018, 040	TOSHIBA	019, 057, 063, 071, 101 107, 109, 110, 111, 113
CANDLE	018	MITSUBISHI/MGA	018, 040, 054, 059, 060, 075, 101		
CETRONIC	003			VIDTECH	018
CITIZEN	003, 018, 025	MTC	018	VIDECH	059, 060, 069
CINEMA	097	NEC	018, 019, 020, 040, 059, 060	WARDS	015, 017, 018, 040, 048, 054, 060, 064
CLASSIC	003				
CONCERTO	018	NIKEI	003	YAMAHA	018
CONTEC	046	ONKING	003	YORK	040
CORONADO	015	ONWA	003	YUPITERU	003
CRAIG	003, 005, 061, 082, 083, 084	PANASONIC	006, 007, 008, 009, 054, 066, 067, 073, 074	ZENITH	058, 079
				ZONDA	001
CROSLEX	062	PENNEY	018	DONGYANG	003, 054
CROWN	003	PHILCO	003, 015, 017, 018, 048, 054, 059, 062, 069, 090	LOWE	054
CURTISMATES	059, 061, 063			FINLUX	054, 109, 114
CXC	003	PHILIPS	015, 017, 018, 040, 048 054, 062, 072, 112, 114, 117, 118	YOKO	054
DAEWOO	002, 003, 004, 015,016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 032, 034, 035, 036, 040, 048, 059, 090, 099, 100			LOEWE OPTA	054, 114
				PHONOLA	054, 112, 114
		PIONEER	063, 066, 080, 091	RADIOLA	054, 112
		PORTLAND	015, 018, 059	SCHNEIDER	054
		PROTON	040	AKAI	103
		QUASAR	006, 066, 067	GRUNDIG	108, 109, 113, 119, 120, 121
DAYTRON	040	RADIO SHACK	017, 048, 056, 060, 061, 075		
DYNASTY	003			BLAUPUNKT	108
EMERSON	003, 015, 040, 046, 059, 061, 064, 082, 083, 084, 085	RCA/PROSCAN	018, 059, 067, 076, 077 078, 092, 093, 094	SIEMENS	108
				CGE	113
		REALISTIC	003, 019	IMPERIAL	113
FISHER	019, 065, 103	SAMPO	040	MIVAR	113
FUNAI	003	SAMSUNG	000, 015, 016, 017, 040, 043, 046, 047, 048, 049, 054, 059, 060, 098	SABA	114
FUTURETECH	003			BANG&OLUFSEN	114
GENERAL ELECTRIC(GE)	006, 040, 056, 059, 066, 067, 068			BRIONVEGA	114
		SANYO	019, 061, 065, 101, 102, 103, 104	FORMENTI	114
HALL MARK	040			METZ	114
HITACHI	015, 018, 050, 059, 069	SCOTT	003, 040, 060, 061	WEGA	114
INKEL	045	SEARS	015, 018, 019	RADIOMARELLI	114
JC PENNY	056, 059, 067, 086	SHARP	015, 057, 064, 101, 105, 106, 115	SINGER	114
JVC	070			SINUDYNE	114
KTV	059, 061, 087, 088	SIGNATURE 2000(M.WARDS)	057, 058	TELEFUNKEN	116
KEC	003, 015, 040	SONY	050, 051, 052, 053, 055, 101		
KMC	015				
LG(GOLDSTAR)	001, 015, 016, 017, 037, 038, 039, 040, 041, 042, 043, 044, 054, 086	SOUNDESIGN	003, 040		
		SPECTRICON	001		
		SSS	018		

Operating your VCR (DVD) with Remote Control



1 Press **MODE** button to make VCR indicator on the remote control flash.

- If you operate DVD, press Device Select button to make DVD indicator on the remote control flash.

2 Press **POWER(⏻/I)** button to turn on the VCR (DVD).

3 Point the remote control toward the VCR (DVD).

4 While holding down **POWER(⏻/I)** button, enter the code corresponding to your brand of VCR (DVD).

- If the code matches the VCR (DVD)'s code, the VCR (DVD) will be turned off.
- If there is more than one code listed for your VCR (DVD) in the table, enter one at a time to determine which code works.

5 If VCR (DVD) is turned on or off when you press the power button of the remote controller, the setting is completed.

- You can use VCR (DVD) POWER, VOLUME, PLAY, PAUSE, STOP, SKIP and Numeric button (0~9).

Note

- The remote control may not work on some brands of VCR (DVD)s. Also, some operations may not be possible depending on your brand of VCR (DVD).
- The remote control will work with Samsung VCRs (DVDs) by default.

VCR Brand Code List

Brand	Code Number
ADMIRAL(M.WARDS)	043,106
AWIA	044,045,046
AKAI	088,089,090
ANAM	001,002,003,004,005,033
AOC	091
AUDIO DYNAMIC	019,047,092
BELL & HOWELL(M.WARDS)	048,093
BROKSONIC	092,094,095
CANON	001,033,049,091
CAPEHART	011
CITIZEN	050
CRAIG	050,072,096
CRITERION	051
CURTIS MATHES	001,031,032,033,044,091
DAEWOO	006,007,008,009,010,011,012,013,014,015,016,017,018,046,051,091
DAYTRON	011
DBX	019,047,052,092
EMERSON	025,031,032,044,046,094,095,097,098,099
FISHER	009,048,053,054,055,100
FUNAI	044
GENERAL ELECTRIC(GE)	001,031,032,033,056,091
GO VIDEO	059,060,061
HARMAN KARDON	019
HITACHI	020,021,049,054,062,100
HQ	051
INSTANT REPLAY	001,033,049,091
JCL	001,033
JCP	025
JC PENNY	047,048,052,062,091,092
JVC	001,033,047,052,063,064,065,092
KENWOOD	047,050,052,092
LG(GOLDSTAR)	019,020,021,022,023,024,025,026,027,028,029,030,050
LXI(SEARS)	020,025,044,048,050,053,054,055,062,100
MAGIN	072
MAGNAVOX	001,031,032,033,049,066,067,091
MARANTZ	001,019,033,047,052,092,110
MARTA	025,050
MEI	001,033
MEMOREX	001,025,033,054,091,100
MINOLTA	020,021,062
MITSUBISHI/MGA	068,069,070,101,102
MTC	072
MULTITECH	044,057,069
NEC	019,047,052,057,092
OLYMPIC	049,091
OPTIMUS	101
ORION	103
PANASONIC	001,004,033,049,067,091,107
PENNEY	019,020,072
PENTAX	001,020,021,033,062
PHILCO	001,033,046,049,091,094
PHILIPS	001,030,033,049,050,066,091
PILOT	025
PIONEER	049
PORTLAND	011
QUASAR	001,033,049,067,091,107,108
RICO	036
RCA/PROSCAN	001,020,021,031,032,033,049,051,062,066,070,091,104
REALISTIC	001,009,025,033,044,048,054,091,101,105
SAMSUNG	000,006,031,032,057,058,071,072,073,074,075,076,077,078,079,080,081
SANYO	008,009,046,048,050,054,058,093,100
SANSUI	092
SCOTT	006,051,054,057,069,070,100,101
SEARS	020,021,025
SHARP	043,105,106
SINGER	096
SIGNATURE2000(M.WARDS)	043,044,054,100,106
SHINTOM	096
SONY	034,035,036,037,038,039,040,041,042,082,083,084,085,086
STS	020
SYLVANIA	001,033,044,049,066,091
SYMPHONIC	044
TANDY	009
TASHIRO	050
TATUNG	047,052,092
TEAC	044,047,052,092
TECHNICS	001,033,049,091
TEKNIKA	001,025,033
TOSHIBA	006,051
TOTEVISION	025,072
TAEKWANG	087
UNITECH	072
VECTOR RESEARCH	019
VIDEO CONCEPTS	019
VIDEOSONIC	072
WARDS	001,020,031,032,033,043,050,054,072,100,105,106,109
YAMAHA	019,047,048,052,092,
ZENITH	019,047,048,052,092

DVD Brand Code List

Brand	Code Number
DENON	003,032
DOONOON	019
DMTECH	017
FISHER	002
GE	006
HARMAN/KARDON	012
JVC	010,013
KENWOOD	008
LG	001
MAGNAVOX	004
MITSUBISHI	005,016
ONKYO	004,014
OPTIMUS	011
PANASONIC	021
PROSCAN	006
PHILIPS	004,023
PIONEER	007,011,022,025
RCA	006
SAMSUNG	000,027
SANYO	002
SONY	015, 020
THETA DIGITAL	011
TOSHIBA	004, 018
YAMAHA	009, 033
ZENITH	004, 024
TAEGWANG	026
PS2	028
X-BOX	029
APEX	030
MARANTZ	031

Before Calling for Service

Symptom	Check	Remedy
Can't turn it on.	• Is the power code plugged into the outlet?	• Connect the power plug to the outlet.
It does not work when the button is pressed.	• Is there static electricity in the air?	• Disconnect the power plug and connect it again.
Sound is not produced.	• Are the speaker and external component connected properly? • Does the Mute function work? • Is the volume set to minimum? • Is the speaker setup selected to NONE?	• Properly connect it. • Press Mute button to cancel the function. • Adjust the volume. • Refer to pages 17~18 to select LARGE, SMALL or YES.
Picture does not appear when the function is selected.	• Isn't the external component connected properly?	• Properly connect it.
Remote controller does not work.	• Are the batteries exhausted? • Is the distance between remote control and main unit proper?	• Replace with new batteries. • Operate at close distance.
The sound from each device is changed during stereo playback.	• Is the left/right speaker or left/right input/output code connected properly?	• Check the left/right channel and properly connect it.
Can't receive broadcasting.	• Is AM or FM antenna connected properly?	• Properly connect the antenna. • If the input strength of antenna connector is weak, install the FM antenna in a place with good reception.
There is no sound from surround speaker.	• Is the surround speaker connected properly? • Is S.SPK (Surround) set to NONE in Speaker Setup? • Is Surround Mode selected to Stereo?	• Refer to pages 9~10 to connect it properly. • Refer to pages 17~18 to select LARGE or SMALL. • Refer to pages 20~34 to select other Surround Mode.
There is no sound from center speaker	• Is the center speaker connected properly? • Is C.SPK (Center) selected to NONE in Speaker Setup? • Is the Surround Mode selected to Stereo?	• Refer to pages 9~10 to connect it properly. • Refer to pages 17~18 to select LARGE or SMALL. • Refer to pages 20~34 to select other Surround Modes.

Symptom	Check	Remedy
Can't select Dolby Pro Logic ll Mode.	• Is the input signal selected properly?	• Select 2 channel Dolby Digital, PCM, and Analog input signal.
There is no sound when playing DTS encoded DVD and CD.	• Is analog input selected?	• Check whether digital external component is properly connected and refer to page 13 to select the digital input.

Product Protection Function

Heat Protection

• Protection function works if the main unit is overheated or power transformer is overheated.
appears in the display when the "PROTECTION" function works.
- If speaker terminal is shorted
- If speaker cord is shorted
If there is no problem when you turn it on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.

Note

• If PROTECTION appears on the display, check whether speaker terminal is shorted and then turn on the device.

Specifications

GENERAL	Standby Power Consumption	0.9W
	Power Consumption	95W
	Weight	4.17 kg
	Dimensions (W x H x D)	429 x 66 x 348 mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10%~75%
FM TUNER	Frequency Response	87.5~108.0MHz
	Usable Sensitivity	12dBf
	S/N Ratio	MONO/STEREO 55/55dB
	Distortion	MONO/STEREO 0.3/0.8%
	Stereo Separation	30dB
	Tuner Output Level	1KHz, 75KHz Dev
AM TUNER	Frequency Response	522~1611KHz
	S/N Ratio	40dB
	Usable Sensitivity	60dBμV/m(Loop Antenna)
	Distortion	2% (MOD:80%)
AMPLIFIER	Rated Output	20Hz~20KHz/THD = 10%
	Front Speaker(Left+Right)	4 Ω 100W/CH
	Center Speaker	4 Ω 100W/CH
	Surround Speaker(Left+Right)	4 Ω 100W/CH
	Subwoofer Speaker	4 Ω 100W/CH
	Input Sensitivity/Impedance	450mV/47kΩ
	S/N Ratio(Analog Input/5.1CH Analog Input)	80dB
	Separation(1KHz)	60dB
FREQUENCY RESPONSE	Analog Input	20Hz~20KHz(±3dB)
	Digital Input	20Hz ~44KHz(±3dB)
VIDEO OUTPUT	TV Format	NTSC/PAL
	Input Level/Impedance	1Vp-p/75 Ω
	Output Level/Impedance	1Vp-p/75 Ω
	Video Frequency Response	5Hz to 10KHz(-3dB)
	Component Video Frequency Response	5Hz to 40KHz(-3dB)
	S/N Ratio	60dB

❋ S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES-17 filter.

SPEAKERS	Speaker system	Front / Surround	Center	Subwoofer speaker
	Impedance	4Ω x 4	4Ω	4Ω
	Rated input	100W	100W	100W
	Maximum input	200W	200W	200W
	Dimensions (W x H x D)	91 x 135 x 98.5 mm	200 x 107 x 100 mm	198 x 403 x 361 mm
	Weight	0.62 Kg	0.77 Kg	6.1 Kg

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Region	Country	Customer Care Center ☎	Web Site
North America	CANADA	1-800-SAMSUNG (7267864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421	www.samsung.com/br
	CHILE	800-726-7864(SAMSUNG)	www.samsung.com/cl
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-7267-864	www.samsung.com/latin
	VENEZUELA	1-800-100-5303	www.samsung.com/latin
Europe	BELGIUM	02 201 2418	www.samsung.com/be
	CZECH REPUBLIC	844 000 844	www.samsung.com/cz
	DENMARK	38 322 887	www.samsung.com/dk
	FINLAND	09 693 79 554	www.samsung.com/fi
	FRANCE	08 25 08 65 65 (0,15€/Min)	www.samsung.com/fr
	GERMANY	01805 - 121213 (€ 0,12/Min)	www.samsung.de
	HUNGARY	06 40 985 985	www.samsung.com/hu
	ITALIA	199 153 153	www.samsung.com/it
	LUXEMBURG	02 261 03 710	www.samsung.lu
	NETHERLANDS	0900 20 200 88 (€ 0.10/Min)	www.samsung.com/nl
	NORWAY	231 627 22	www.samsung.com/no
	POLAND	0 801 801 881	www.samsung.com/pl
	PORTUGAL	80 8 200 128	www.samsung.com/pt
	SLOVAKIA	0850 123 989	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com/es
	SWEDEN	08 585 367 87	www.samsung.com/se
	U.K	0870 242 0303	www.samsung.com/uk
CIS	RUSSIA	8-800-200-0400	www.samsung.ru
	UKRAINE	8-800-502-0000	www.samsung.com/ur
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com/au
	CHINA	800-810-5858, 010- 6475 1880	www.samsung.com.cn
	HONG KONG	2862 6001	www.samsung.com/hk
	INDIA	3030 8282 1600 1100 11	www.samsung.com/in
	INDONESIA	0800-112-8888	www.samsung.com/id
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